

Subject	Biology		
	Interpretation of National Curriculum into Year group Endpoints		
Year	Term 1	Term 2	Term 3
10	<p>Students will describe and explain the concepts of:</p> <p>B4 Bioenergetics</p> <ul style="list-style-type: none"> the importance of cellular respiration; the processes of aerobic and anaerobic respiration photosynthesis as the key process for food production and therefore biomass for life the process of photosynthesis factors affecting the rate of photosynthesis <p>B5 Homeostasis and response</p> <ul style="list-style-type: none"> principles of nervous coordination and control in humans the relationship between the structure and function of the human nervous system the relationship between structure and function in a reflex arc principles of hormonal coordination and control in humans hormones in human reproduction, hormonal and non-hormonal methods of contraception homeostasis 	<p>Students will describe and explain the concepts of:</p> <p>B6 Inheritance, variation and evolution</p> <ul style="list-style-type: none"> the genome as the entire genetic material of an organism how the genome, and its interaction with the environment, influence the development of the phenotype of an organism the potential impact of genomics on medicine most phenotypic features being the result of multiple, rather than single, genes single gene inheritance and single gene crosses with dominant and recessive phenotypes sex determination in humans genetic variation in populations of a species the process of natural selection leading to evolution the evidence for evolution developments in biology affecting classification the importance of selective breeding of plants and animals in agriculture the uses of modern biotechnology including gene technology; some of the practical and ethical considerations of modern biotechnology 	<p>Students will describe and explain the concepts of:</p> <p>B7 Ecology</p> <ul style="list-style-type: none"> methods of identifying species and measuring distribution, frequency and abundance of species within a habitat <p>Revision for, taking and review and intervention after Y10 PPEs</p>